•	\ <u>\</u>		167	Ţ,			,				eet <u>l</u>	of1_
FORM PT	0-1449	37	U.S.	DE PAR MOY AN	TMENT	OF DEM	COMMERCE ARK OFFICE	PRD204		SERIAL 10/78	. no. 6,478	
li	NFORMA CITATIC	T	ON	DISC	CLOS	UR	E	APPLICANT Chen et al.				
					necess			FILING DAT	e 25, 2004	GROUP 1647	P ART UNIT	
	•						IIS PAT	ENT DOC	CUMENTS			
EXAMINE						ER	DA		INVENTORS	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		‡										
						F	OREIGN P	ATENT D	OCUMENTS			
		Τ	DOC	JMENT	NUMB	ER	DAT	ΓE	COUNTRY/REGION	CLASS	SUBCLASS	TRANSLATION (if applicable)
D	WO 200						March 9, 2		WIPO			
ID	WO 200) [5	0	1 4	6 1	6	February 1	7, 2005	WIPO		<u> </u>	
	отн	EF	R DC	CUI	MENT	<u>'S</u>	(Including	Author,	Title, Date, Pei	tinent	Pages, E	itc.)
15			GP0	CR142	from	diffe	erent mamma	alian specie	on of relaxin-3/INS s," <i>J. Pharmacol. E</i>	xp. The	r., Vol. 312(1), pp. 83-95
:15			DD.	50765	-5077) (2	003).		s a ligand for GPC			
, 10			Lcour	oled re	ecepto	r Gl	PCR135." J. I	Biol. Chem.	s an endogenous lig , Vol. 278(50), pp.	50754-5	i0764 (2003	3).
10			Liu (et al.,	"INSL	5 is 300	a high affinity (2005).	y specific a	gonist for GPCR14	2 (GPR1	100)," J. Bio	I. Chem., Vol.
ID			(200) 5).					ted research," Ann.			
10			rece	eptor (GPCR)13 col	5 and GPCR . Vol. 67(1). (142 over le pp. 231-240	nimeric peptide, a s ucine-rich repeat-c) (2005).	ontainin	g G protein-	-coupled receptor
10			mRi Neu	NA in <i>roend</i>	the rat	bra loa	ain suggests a v. Vol. 80(5).	a role for re . pp. 298-30	oled receptor (GPC) elaxin-3 in neuroend 07 (2005).	docrine a	and sensory	processing,"
M			Sutt	on et	al "G	-pro	tein-coupled	receptor (C	SPCR)-142 does no n-3 is the physiolog	ot contril ical liga:	bute to related to the formal of the formal	xin-3 binding in R135,"

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Sheet_	1	of _	5

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. PRD2045NP-US SERIAL NO. 10/786,478

INFORMATION DISCLOSURE CITATION BY APPLICANT

(Use several sheets if necessary)

Chen et al.

FILING DATE February 25, 2004 GROUP ART UNIT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER		DATE	INVENTORS	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE					
D	US	4	8	7	3	3	1	6	October 10, 1989	Meade et al.	1		
10	US	5	2	2	3	4	0	9	June 29, 1993	Ladner et al.			
10	US	5	2	7	2	0	7	1	December 21, 1993	Chappel			
ĪD	US	5	5	7	1	6	9	8	November 5, 1996	Ladner et al.			
10	US2003	0	1	5	7	5	5	8	August 21, 2003	Matsumoto et al.			
D	US2003	0	1	5	8	3	8	1	August 21, 2003	Itoh et al.			

FOREIGN PATENT DOCUMENTS

		D	OC	UMI	ENT	NÜ	MB	ER	DATE	COUNTRY/REGION	CLASS	SUBCLASS	TRANSLATION (if applicable)
D	EP	0	2	6	4	1	6	6	August 21, 1996	EP			
10	EP	1	1	2	6	0	2	9	August 22, 2001	EP			
10	wo	9	1	0	6	6	6	7	May 16, 1991	WIPO			
iD	wo	0	0	2	3	1	1	1	April 27, 2000	WIPO			
ID	WO	0	0	2	4	8	9	1	May 4, 2000	WIPO			
ID.	WO	0	1	4	8	1	8	9	July 5, 2001	WIPO			
D	WO	0	1	6	2	7	9	7	August 30, 2001	WIPO			
り	wo	0	1	6	8	8	6	2	September 20, 2001	WIPO			
10	WO	0	1	7	4	9	0	4	October 11, 2001	WIPO			
I.D	WO	0	1	7	5	1	6	4	October 11, 2001	WIPO			
ID	WO	0	1	8	1	5	6	2	November 1, 2001	WIPO			
<u>D</u>	WO	0	1	8	5	7	9	1	November 15, 2001	WIPO			
ID	WO	0	2	0	0	7	1	9	January 3, 2002	WIPO			
10	WO	0	2	2	2	8	0	2	March 21, 2002	WIPO			

OTHER DOCUMENTS (Including Author Title Date Pertinent Pages, Etc.)

	officit boodineit of findidating Author, Title, bute, i citinent i ages, etc.,
り	Altschul et al., "Basic Local Alignment Search Tool", <i>J. Mol. Biol.</i> , Vol. 215, pp. 403-410 (1990).
Ū	Altschul et al., "Gapped BLAST And PSI-BLAST: A New Generation Of Protein Database Search Programs", <i>Nucleic Acids Res.</i> , Vol. 25(17), pp. 3389-3402 (1997).
פו	Amann et al., "Tightly Regulated tac Promoter Vectors Useful For The Expression Of Unfused And Fused Proteins In Escherichia Coli", <i>Gene</i> , Vol. 69, pp. 301-315 (1988).
10	Baldari et al., "A Novel Leader Peptide Which Allows Efficient Secretion Of A Fragment Of Human Interleukin 18 In Saccharomyces Cerevisiae", <i>EMBO J</i> , Vol. 6(1), pp. 229-234

EXAMINER | 1(198

DATE CONSIDERED

EXAMINED. Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	PRD2045NP-US	SERIAL NO. 10/786,478			
. INF	ORMAT	TION DISCLOSURE	APPLICANT				
C		N BY APPLICANT	Chen et al.				
	(Use sevi	eral sheets if necessary)	FILING DATE February 25, 2004	GROUP ART UNIT			
				Date, Pertinent Pages, Etc.)			
り				Is Located Downstream Of The Cell, Vol. 33, pp. 729-740 (1983).			
IP				quivalent Mouse Relaxin (M3) I. Biol. Chem., Vol. 277(2), pp.			
D		Benjannet et al., "PC1 And F Propiomelanocortin At Distir 88, pp. 3564-3568 (1991).		ases Capable Of Cleaving ", <i>Proc. Natl. Acad. Sci. USA</i> , Vol.			
ID		Brummelkamp et al., "A Syste Mammalian Cells", Science,					
10			Burazin et al., "Restricted, But Abundant, Expression Of The Novel Rat Gene-3 (R3) Relaxin In The Dorsal Tegmental Region Of Brain", <i>J. Neurochem.</i> , Vol. 82, pp. 1553-1557 (2002).				
10			Byrne et al., "Multiplex Gene Regulation: A Two-Tiered Approach To Transgene Regulation In Transgenic Mice", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 86, pp. 5473-5477				
19		Calame et al., "Transcriptiona Receptor Loci", Adv. Immuno		ne Immunoglobulin And T Cell 88).			
19		Camper et al., "Postnatal Rep Independent", Genes & Dev.,					
り		Carrillo et al., "The Multiple S Math, Vol. 48(5), pp. 1073-10		n In Biology", Siam J. Applied			
り		Civelli et al., "Novel Neurotra Receptors", <i>Trends in Neuro</i>		s Of Orphan G-Protein-Coupled 0-237 (2001).			
10		Conklin et al., "Substitution C That Of G _i a", <i>Nature</i> , Vol. 36		es Receptor Specificity Of G _q α To			
(p	. ;			Libraries Of Peptides Linked To I. Sci. USA, Vol. 89, pp. 1865-			
10		Devereux et al., "A Comprehe Nucleic Acids Research, Vol.	12(1), pp. 387-395 (1984).	alysis Programs For The VAX",			
EXAMINER	1//	2/1/1	DATE CONSIDERED				

Sheet____2__ of ____5__

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1	449 U.S. DEPARTMENT OF COMMERCE	ATTY. DOCKET NO.	SERIAL NO.					
	PATENT AND TRADEMARK OFFICE	PRD2045NP-US	10/786,478					
IAIF	ODMATION DISCLOSUDE	APPLICANT	L					
	ORMATION DISCLOSURE	Chen et al.						
	(Use several sheets if necessary)	FILING DATE	GROUP ART UNIT					
	(**************************************	February 25, 2004						
	OTHER DOCUMENTS (Including		rtinent Pages, Etc.)					
100			n Gene: Evidence For Role Of					
10	Two Distinct 5' Flanking Eler							
10	l l		22-Nucleotide RNAs", Genes &					
	Dev., Vol. 15, pp. 188-200 (2 Fire et al., "Potent And Spec		Pouble-Stranded RNA In					
17	Caenorhabditis Elegans", Na							
			gical Chips", <i>Nature</i> , Vol. 364, pp.					
10	555-556 (1993).							
D		The Nucleus Incertus", J. Co	omp. Neurol., Vol. 438, pp. 86-122					
	(2001). Hammond et al., "An RNA-D	ivested Niveleges Madiates	Post Transprintional Cons					
\mathcal{D}	Silencing In Drosophila Cells							
	Hampson et al., "Probing Th							
15			74(47), pp. 33488-33495 (1999).					
			Precursor Cleavage Catalyzed By					
15	1 1	Furin Within The Constitutive Secretory Pathway", J. Biol. Chem., Vol. 266, pp. 12127-						
	12130 (1991). Houghten et al., "The Use O	f Synthetic Pentide Combine	torial Librarias For The					
10	Identification Of Bioactive Pe							
10	Howard et al., "Orphan G-Pr	otein-Coupled Receptors An	d Natural Ligand Discovery",					
		Sciences, Vol. 22(3), pp. 132						
B		phan Receptors By The Horr	none Relaxin", <i>Science,</i> Vol. 295,					
	pp. 671-674 (2002).	assesing The Statistical Sign	ificance Of Molecular Sequence					
D			ntl. Acad. Sci. USA, Vol. 87, pp.					
. 1-0	2264-2268 (1990).	· · · · · · · · · · · · · · · · · · ·	/ touc. Go. Go. Go. G. , Tou. G. , pp.					
10	Karlin et al., "Applications Ar		n-Scoring Segments In Molecular					
<u>'リ</u>	Sequences", Proc. Natl. Aca							
(10)			mRNAs And Their Utilization To					
10			O J., Vol. 6, pp. 187-195 (1987). Ince, Vol. 249, pp. 374-379 (1990).					
			Fα): A Putative α-Factor Precursor					
10			, Vol. 30, pp. 933-943 (1982).					
T _D	Lam et al., "A New Type Of							
•	Activity", Nature, Vol. 354, p	n 82-84 (1991)						
EXAMINER		DATE CONSIDERED						
EXAMINE	Mitial if citation considered, whether	r or not citation is in confo	rmance with MPEP 609: Draw line					
through ci	tation if not in conformance and not co	nsidered. Include copy of the	is form with next communication to					
applicant.			· •					

•			Sneet 4 01 5				
FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	PRD2045NP-US	SERIAL NO. 10/786,478				
	ATION DISCLOSURE ON BY APPLICANT	APPLICANT Chen et al.					
	everal sheets If necessary)	FILING DATE February 25, 2004	GROUP ART UNIT				
OTH	IER DOCUMENTS (Including						
D	Lam, "Application Of Combin Discovery", Anti-cancer Drug	Des., Vol. 12, pp. 145-167	(1997).				
01			nea Pig Histamine H₄ Receptors , <i>J. Pharmacol. Exp Ther.</i> , Vol.				
<i>i</i> D	Luckow et al., "High Level Ex Californica Nuclear Polyhedro (1989).		ign Genes With Autographa ors", <i>Virology</i> , Vol. 170, pp. 31-39				
り	Matsumoto et al., "The Nove Similarity With Somatostatin (2000).	I G-Protein Coupled Recep And Angiotensin Receptors	tor SALPR Shares Sequence ", <i>Gene,</i> Vol. 248, pp. 183-189				
10	13(5), pp. 184-188 (1990).		By CREB", Trends Neurosci., Vol.				
10 10	Moss, "RNA Interference: It's (2001).	A Small RNA World", Curr.	Biol., Vol. 11(19), pp. R772-R775				
10	Myers et al., "Optimal Alignm pp. 11-17 (1988).						
19	O'Hara et al., "The Ligand-Bi Related To Bacterial Periplas	mic Binding Proteins", Neu	ron, Vol. 11, pp. 41-52 (1993).				
19			tream Functions Along With Its n Transgenic Mice", Genes Dev.,				
19	Elements", Cell, Vol. 33, pp.	741-748 (1983).	tivated By Downstream Sequence				
10	Rattan et al., "Protein Synthe Acad. Sci., Vol. 663, pp. 48-6		ications, And Aging ^a ", Ann. N.Y.				
10	Schultz et al., "Expression Ar Derived From Epstein-Barr V		400-kDa Envelope Glycoprotein 3-123 (1987).				
D	Scott et al., "Searching For P pp. 386-390 (1990).	eptide Ligands With An Epi	tope Library," Science, Vol. 249,				
15	Seed et al., "An LFA-3 cDNA Homologous To Its Receptor	CD2", Nature, Vol. 329, pp	. 840-842 (1987).				
(b)	Seidah et al., "Proprotein And Generating Diverse Bioactive	Polypentides" Brain Pos					
EXAMINER	7/	DATE CONSIDERED 11/14/2006					
through citation i	al if exation considered, whether f not in conformance and not cor	or not citation is in confonsidered. Include copy of the	ormance with MPEP 609; Draw line is form with next communication to				
applicant.			•				

				Sheet	5 of5	5		
FORM PTO-1	449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.				
		TATERT AND THAD EMAIN OF THE	PRD2045NP-US	10/786,47	8			
-		ION DISCLOSURE N BY APPLICANT	APPLICANT Chen et al.	<u> </u>				
,		eral sheets if necessary)	FILING DATE February 25, 2004	GROUP ART U	INIT			
	OTHE	R DOCUMENTS (Includin	g Author, Title, Date, Per	tinent Pag	jes, Etc.)			
10		Seifter et al., "Analysis For Pr Enzymol., Vol. 182, pp. 626-		protein Cofa	ictors", <i>Meth</i> .			
10		Shimomura et al., "Identificati G-Protein-Coupled Receptors 35832 (2002).						
16		Smith et al., "Production Of H Baculovirus Expression Vector						
in		Smith et al., "Single-Step Pur Fusions With Glutathione S-T						
10		Studier et al., Methods In Enz Expression Of Cloned Genes (1990).						
10			Sudo et al., "H3 Relaxin Is A Specific Ligand For LGR7 And Activates The Receptor By Interacting With Both The Ectodomain And The Exoloop2", <i>J. Biol. Chem.</i> , Vol. 278(10), pp. 7855-7862 (2003).					
D		Prohormone In Mammalian C	Thomas et al., "Kex2-like Endoproteases PC2 And PC3 Accurately Cleave A Model Prohormone In Mammalian Cells: Evidence For A Common Core Of Neuroendocrine Processing Enzymes", <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 88, pp. 5297-5301 (1991).					
10		Weintraub et al., "Anti-Sense Genetics, Vol. 1, pp. 22-25 (1		or Genetic A	nalysis", <i>Trends In</i>	1		
10		Wilson et al., "Orphan G-Prot Targets?", British J. of Pharm						
120		Winoto et al., "A Novel, Induc The T Cell Receptor α Locus"				if		
13		Zamore et al., "RNAi: Double mRNA At 21 To 23 Nucleotid						
10		Zuckermann et al., "Discover Coupled Receptors From A D Chem., Vol. 37, pp. 2678-268	Diverse N-(Substituted) Glyci					
EXAMINER	111	1	DATE CONSIDERED					
EXAMINEI through c	Initial itation if	if chation considered, whether	or not citation is in confonsidered. Include copy of th	rmance with	n MPEP 609; Draw next communication	line on to		

applicant.

í